

5.5V Coin Supercapacitor Horizontal, Center Pins



ADCC-S05R5S

Request Samples



Check Inventory



Various Sizes

RoHS/RoHS II Compliant

MSL Level = 1

Features

- Coin Type Supercapacitor
- Horizontal, Center pins
- High power density
- Minimal discharge rate, 72 hours @ discharge<20%
- Excellent cycle life
- Green, meets RoHS requirements

Applications

- Power Assist Circuits
- Power Backup
- Micro Energy Storage
- IoT Energy Harvesting
- SSD applications
- DDR power back up
- RTC System power transfer to battery backup

Electrical Specifications

Part Number	Nominal Voltage (U_R)	Capacitance	Tol.	ESR (Max)	Nominal Current	Peak Current (Max)	Leakage Current	Stored Energy (Max)	Gravimetric Energy Density	Volumetric Energy Density
ADCC-S05R5S	DC(V)	Farads	±%	Ω	A	A	uA	mWh	Wh/kg	Wh/L
ADCC-S05R5SA473W	5.5V	0.047	-20%/ 100%	120	0.010	0.014	3	0.197	0.065	0.229
ADCC-S05R5SA104X	5.5V	0.1	-20%/ 150%	50	0.022	0.032	3	0.420	0.139	0.487
ADCC-S05R5SA224W	5.5V	0.22	-20%/ 100%	40	0.033	0.043	4	0.924	0.305	1.071
ADCC-S05R5SA334Z	5.5V	0.33	-20%/ 80%	40	0.037	0.044	5	1.386	0.458	1.607
ADCC-S05R5SA474Q	5.5V	0.47	-10%/ 30%	40	0.039	0.044	6	1.975	0.652	2.289
ADCC-S05R5SA105R	5.5V	1	0/+30%	15	0.100	0.117	8	4.201	0.505	1.720
ADCC-S05R5SA155R	5.5V	1.5	0/+30%	10	0.150	0.176	12	6.302	0.757	2.580

Operating Temperature: -25°C to +70°C

Storage Temperature: -30°C to +50°C, RH<60%, Max. Humidity <85% RH

Test Conditions:

All parameters are measured according to the IEC 62391-1 standard.

Ambient Temperature: +25°C

Capacitance: measured with $I(mA) = 4(C * U_R)$.

ESR: Measured at 1KHz.

Maximum Surge Voltage: $5.7V \leq 30$ seconds

Nominal Current: 5 Seconds to discharge from U_R to $1/2U_R$.

Peak Current (Max.): 1 second to discharge to U_R to $1/2U_R$.

Leakage Current: Measured after 72h at U_R .

Life Cycles: 500,000 cycles with less than 30% change in capacitance.



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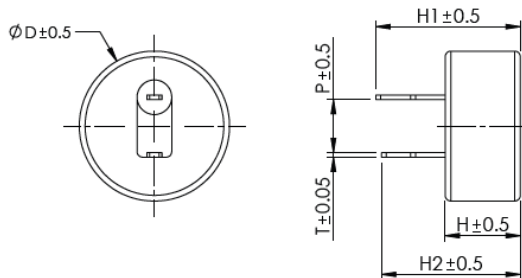
Various Sizes

RoHS/RoHS II Compliant

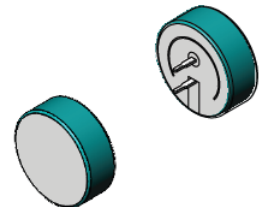
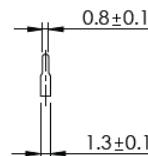
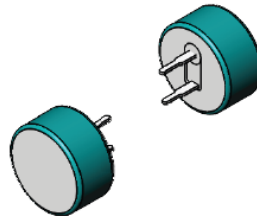
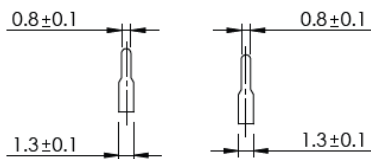
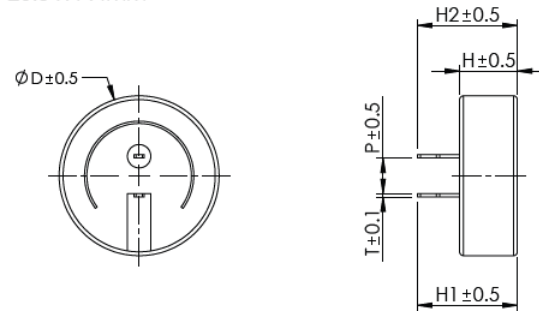
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Mechanical Specifications

13 X 6.5MM



20.5 X 7.4MM



ABRACON PART#	SIZE D x H	PIN SPACING P	ANODE (+) LENGTH H2	CATHODE (-) LENGTH H1	LEAD THICKNESS T
ADCC-S05R5SA473W	13X6.5	5	12	12.5	0.4
ADCC-S05R5SA104X	13X6.5	5	12	12.5	0.4
ADCC-S05R5SA224W	13X6.5	5	12	12.5	0.4
ADCC-S05R5SA334Z	13X6.5	5	12	12.5	0.4
ADCC-S05R5SA474Q	13X6.5	5	12	12.5	0.4
ADCC-S05R5SA105R	20.5X7.4	5	12.8	12.8	0.45
ADCC-S05R5SA155R	20.5X7.4	5	12.8	12.8	0.45

Dimensions: mm



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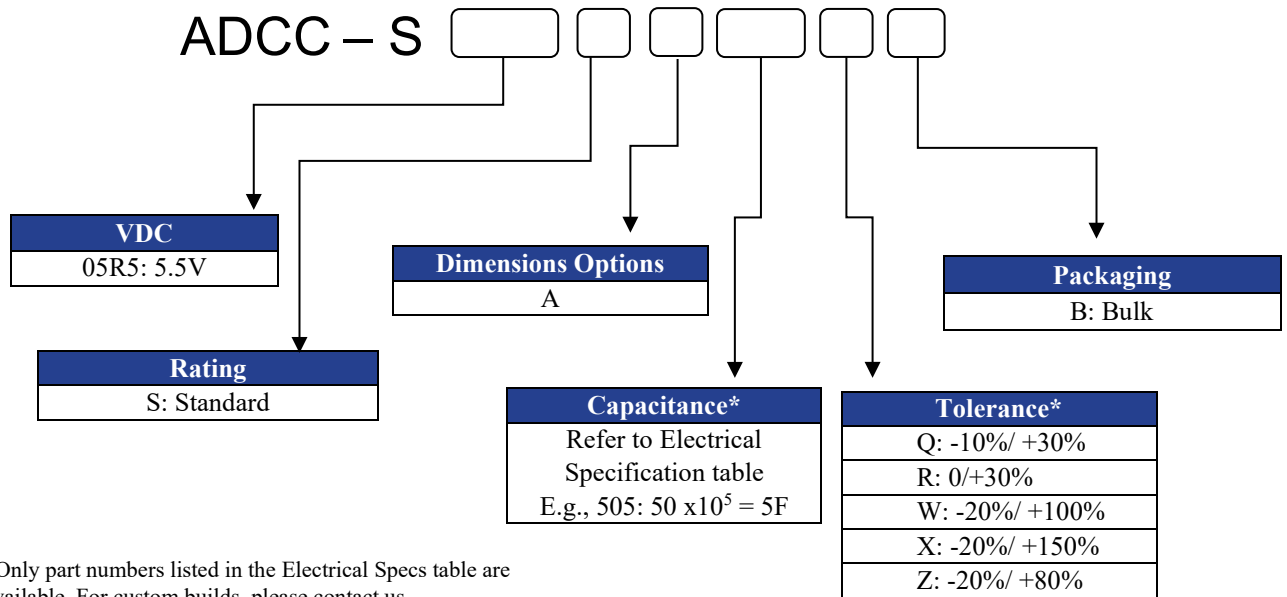


Various Sizes

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Part Number Identification



*Only part numbers listed in the Electrical Specs table are available. For custom builds, please contact us.

Part Marking



Example of the Markings of a 5.5V 0.1F supercapacitor

Capacitance (F)

Rated Voltage (V)

Polarity: Negative bar on the sleeve to indicate the cathode. (The bar might look slightly different for 1.0F and 1.5F parts)



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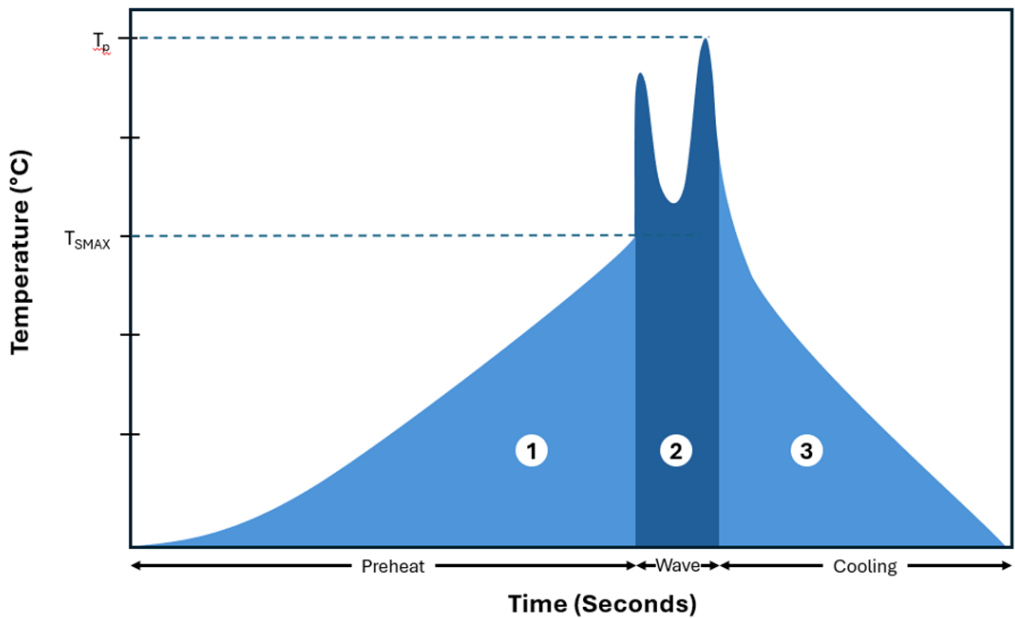


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Wave Profile



Zone	Description	Temperature	Times
1	Preheat	$T_{SMIN} \sim T_{SMAX}$ 25°C ~ 120°C	45 sec. MAX
	Preheat Rate	$T_{PREHEAT}$ +4°C/Sec MAX	
2	Wave Temperature	T_w 240°C ~ 260°C	5 sec. MAX
	Wave Peak Temperature	T_P 260°C	
3	Cooling Rate	$T_{COOLING}$	-5°C/Sec MAX

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Packaging

Part Number	Quantity (PCS/Box)
ADCC-S05R5SA473W	748
ADCC-S05R5SA104X	748
ADCC-S05R5SA224W	748
ADCC-S05R5SA334Z	748
ADCC-S05R5SA474Q	748
ADCC-S05R5SA105R	352
ADCC-S05R5SA155R	352

Transport of Product

This product is not subject to US DOT or IATA regulations UN3499 since maximum stored energy is below 10Wh and can be considered Non-Hazardous Goods. Please refer to the [Abracon | UN/IATA Transportation Guidelines](#) for more information.

ATTENTION: Abracon LLC's products are Commercial-Off-The-Shelf (COTS, which are designed, intended and validated for use in commercial, industrial and automotive applications. The customer is responsible for testing and verifying the performance of an Abracon solution to meet their system-level requirements.



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